



TOWN OF AMHERST, VIRGINIA
DEPARTMENT OF PLANTS
REQUEST FOR PROPOSALS (RFP) #WTP18-01
INTERIOR CLEANING & INSPECTION OF WATER STORAGE TANK(S)
Issue Date: August 7, 2018
Due Date: September 21, 2018 at 2:00PM EST

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The Town of Amherst will accept proposals until 2:00PM, September 7, 2018 to provide for the interior cleaning and inspection of two (2) one-million gallon water storage tanks and one (1) fifty-two thousand gallon clear-well in accordance with all specifications and conditions herein.

Proposers should carefully examine the specifications and fully inform themselves as to all conditions and matters which could in any way affect the equipment/material/service or the cost thereof. Should a proposer find discrepancies in, or omissions from, the specifications or invitation for bids or should he be in doubt as to their meaning, he should notify the Town of Amherst and obtain clarification prior to submitting any proposal. Clarifications, if any, will be made via addendum to this RFP which will be made available no later than August 27. Proposers are responsible for obtaining copies of any addenda prior to proposing.

Proposals may be submitted by mailed, emailed or faxed. The Town reserves the right to reject any and all proposals, to waive any technicalities in quotations received, to negotiate any proposer, and to authorize a contract which best serves the interest of the Town. Following the evaluation of proposals, all proposers will be notified of award decisions via mail.

GENERAL TERMS AND CONDITIONS

PROJECT SPECIFICATIONS AND CONDITIONS

It is the intent of the Town of Amherst to hire a contractor to provide all labor, equipment, transportation, materials and supervision required to clean and inspect the interior and exterior surfaces of two (2) one million gallon potable water storage tanks on one (1) fifty-two thousand gallon potable water clear-well.

- Waughs Ferry Road Tank is a ground mounted, cylindrical one-million gallon tank with a height of fifty (50) feet and a diameter of twenty-nine (29) feet. The tank is of welded steel plate and was constructed approximately 1969. It was last refurbished in 1995 and had its last routine cleaning and inspection in 2012. The top of the tank is a low profile dome.
- Union Hill Road Tank is a ground mounted cylindrical one-million gallon tank with a height of twenty-one (21) feet with a nineteen (19) foot water depth and a diameter of ninety-four (94) feet. The tank is of concrete and was constructed approximately 2008. It has no routine cleaning and inspection history. The top of the tank is a low profile dome.
- Grandview Drive Filter Plant Clear-well is an “L” shaped tank originally constructed in the 1950’s and refurbished and enlarged in the 1995 facility upgrade. It is though that the clear-well may have had one cleaning since the 1995 upgrade but no records are available to verify. The below grade tank is rough two (2) rectangular shapes creating the “L” configuration. One (1) rectangle is forty-eight (48) feet by twelve (12) feet and the other is thirteen (13) feet by twenty-three (23) feet both with a height of nine (9) feet and water depth of eight (8) feet.

Cleaning and inspection operations are to be performed without de-watering of the tanks and clear-well or disruption to the distribution system on a pre-scheduled basis.

Contractor shall have a minimum of five (5) years of potable water diving experience and provide a minimum of five (5) references for similar work, preferably within the Town’s geographic area. In addition, contractor shall provide certificates of training for all personnel who will be involved in the actual diving operation for this job, as well as a syllabus outlining training received by same personnel specifically related to diving and inspection in the potable water industry.

All work must conform to all Virginia Department of Health Water works Regulations and all AWWA standards.

INTERIOR CLEANING

Cleaning shall be performed using divers certified and experienced in potable water diving. Contractor shall provide the procedure, labor, equipment and supplies necessary to thoroughly remove all accumulated bottom sediment and debris from water storage reservoir.

All diving shall be conducted by certified commercial divers who have graduated from an Association of Commercial Diving Educators (ACDE) Approved Commercial Diving Course of equivalent institution. Diving personnel shall be trained, certified, and adhere to the applicable standards. The dive team shall consist of no less than a three (3) person team (diver, tender, and dive supervisor), all of whom shall be dive qualified. All team members shall hold current first aid, CPR and O₂ administration certifications, as well as have completed a diver physical within the previous twenty-four (24) months.

All diving shall be conducted with surface supplied commercial grade diving equipment, including compressor (or compressed air bottle storage system), volume tank, air control system, filter system and pneumafathometer. The air source shall be tested within the previous 45 days for oil mist and other contaminants in accordance with 25 CFR.

All diving shall be conducted utilizing a totally encapsulated diving dress, including diver hard hat with sealed neck dam, and a dry suit in good repair. The use of a band mask shall be prohibited for any but an emergency situation.

The diver hard hat shall be equipped with operating voice communication to the surface, and the diver umbilical shall consist of, at a minimum, the following: diver air hose, diver communication cable, high intensity lighting cable, and pneumafathometer.

All diver equipment and any other equipment introduced into the reservoir shall be dedicated for potable water operations and shall be disinfected with no less than 200-ppm chlorine scrub/spray prior to entry into the reservoir. The Contractor will complete pre- and post- inspection chlorine residual testing as needed.

Dive contractor shall have at the dive site and available for examination the following documentation: copy of standards and procedures manual, copy of safety manual, diver logbooks, and the latest air testing reports.

Dive team shall be equipped with real-time color video with live voice recording (and associated lighting system) between diver and surface team to allow for real-time surface monitoring of all diving activities and findings, as well as quality control of the work. The Town Shall be supplied a copy of the video created from the dive operations.

All accumulated bottom sediment and debris shall be removed in a manner that does not compromise the tank integrity and/or coating system. The work shall not cause disruption to the use or quality of the water. Removed water, debris (or other waste materials) may be dumped in the digester aeration basin located on site at the Rutledge Creek Wastewater Treatment Facility in the Town of Amherst. The reservoir shall remain in operation while the cleaning is in progress. If shut down is necessary, it shall be for a minimal period.

INSPECTION SERVICES

Inspection and reporting shall be based on findings related to the following criteria:

- All concrete shall be inspected for conditions including cracking, spalling or exposed reinforcement. Any areas suspected of leaking or where leaking has been identified should be documented in the final reporting. Findings are to be graded in accordance with the applicable standards as required by the American Concrete Institute ACI 201.1R-92.
- Steel Surfaces/Plumbing Interior Coatings are to be inspected for conditions including peeling, blistering or other indications of loss of coating integrity. Any areas of pitting or rust, as well as any associated undercutting or migration, shall be documented in the final report with location of problem areas clearly described. Findings shall be graded in accordance with the applicable standards from the following agencies:
 - Coatings Society of Protective Coatings – ANSI/SSPC-Vis 2-82/ASTM-D6 10-85
 - Corrosion National Association of Corrosion Engineers – ASN/NACE RPO 178-91 A, B, C

Welds American Welding Society – ANSI/AWS B1, 11-88

- Representative pit and blister survey: Interior pitting depth measurements to 10 mils occurrence shall be reported by location and character.
- Non-destructives coating mil thickness test: DFT (Dry Film Thickness) of installed coating system. DFT sampling shall be performed on various surfaces of the tanks listed in the proposal. Representative readings (locations and findings) from accessible areas of the interior and exterior coating are to be provided in the final reports.
- Town personnel are to be present during all inspection s and cleaning operations.
- Examine all of the interior, exterior, top of the tank, ladders, hatches, and other appurtenances.

REPORTING

Reporting shall be thorough and include sections for the interior (both above and below the waterline), the exterior, and appurtenances.

Estimates of corrosion both above and below the water line based on NACE and SSPC guidelines.

Grading of the weld seams based on AWS criteria.

A description of concrete condition denoting any problems areas such as cracking, spalling or deterioration.

Description of hatch condition, vent and screen condition, ladder condition and overflow structure and flap condition.

Recommendations and cost estimates for any needed repairs.

Reporting shall include interior video inspection with real-time closed circuit high-resolution color underwater video equipment. All pertinent findings shall be recorded on digital video disc (DVD) (including dive maintenance technician's findings and narrative summary), as well as on all checklists and written recommendations. Exterior inspection findings shall be noted on the exterior reservoir checklist. DVD record, checklists and summary recommendations shall be provided upon completion of the operations and shall remain the property of the Town. Narrated color recordings shall review at a minimum the conditions of internal walls, floors, roofs, hatches, welds, overflow structures, sediment and any identified discrepancies.

NON-DISCRIMINATION

The contractor shall comply with Sec. 11.51 of the Code of Virginia which states in part. "The contractor will not discriminate against any employee of applicant for employment because of race, religion, color, sex or national origin except where religion, sex or national origin is a bona fide occupation qualification reasonably necessary to the normal operation of the contractor."

INSURANCE

Contractor shall purchase and maintain the following insurance coverage:

- (1.) Workman's Compensation including Employer's Liability Insurance complying with State requirements. Employer's Liability Insurance shall be provided with a limit of not less than \$500,000 per occurrence.

(2.) Comprehensive General Public Liability Insurance including coverage for products and completed operations work and Contractual Liability Insurance covering the indemnity clauses in this agreement, with minimum limits of \$500,000 Bodily Injury and Property Damage combined single limit per occurrence.

(3.) Automobile Liability Insurance: \$100,000 Bodily Injury and Property damage combined single limit per occurrence.

(4.) Contractor shall indemnify and hold harmless the Town of Amherst from any and all losses, damages, claims, fines, penalties, suits and costs, including injury or death of any persons, or damage to or loss of property, as well as fines, assessments and penalties imposed by any authority which arise out of all violation of law by, and all acts and omission of the Contractor, the Contractor's agents, employees, or customers, occurring in connection with the products and services covered herein.

A certificate evidencing insurance coverage as above shall be provided by the Contractor to Town of Amherst prior to the execution of any contract. The Town of Amherst shall be named as an Additional Insured and Alternate Employer. It shall be the Contractor's responsibility to keep said insurance coverage in full force and effect during the term of any contract. Such certificate shall provide that thirty (30) days advance written notice shall be given to the Town in the event of any change in, or cancellation of such insurance.

PRICING INFORMATION

Provide lump sum pricing as requested on the attached BID FORM. Pricing for interior cleaning of tanks shall be based on the removal of sediments up to two (2) inches in depth, averaged over the entire floor area. Contractor shall provide a unit price per cubic yards on the space provided for the removal of bottom sediments in excess of two (2) inches.